

Weekly Report

09/14/2015 - 09/20/2015

Jing XIA

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1 Summary

This week I mainly focus on the DataScanner project.

2 Projects

2.1 Project 1 - DataScanner1

- The number of collected user study has increased to 9.
- I took over Zongzhuang Li's code of dendrogram layout and reconfigured the layout according to our skewed categorization tree. It turned out not so good. Since the tree is heavily skewed, I reorder the non-leaf node according to their children size. But still not good (see Figure 1 below). However, when I apply the reorder procedure to the original force tree layout, the visualization becomes much better (see Figure 2.1 below).
- I have the second case to be the air quality dataset and use the SIFT operator to be the similarity method. The result is reasonable and promising, where similar logos gather together (see Figure 3).
- Other minor bugs fixed to improve the visualization and interaction effects.

3 Paper Reading and Miscellaneous

- The first issue of Big Data weekly: three versions.
- The first group meeting of fundamental methods of visualization group. Topic: Networks, Communities and Marketing.

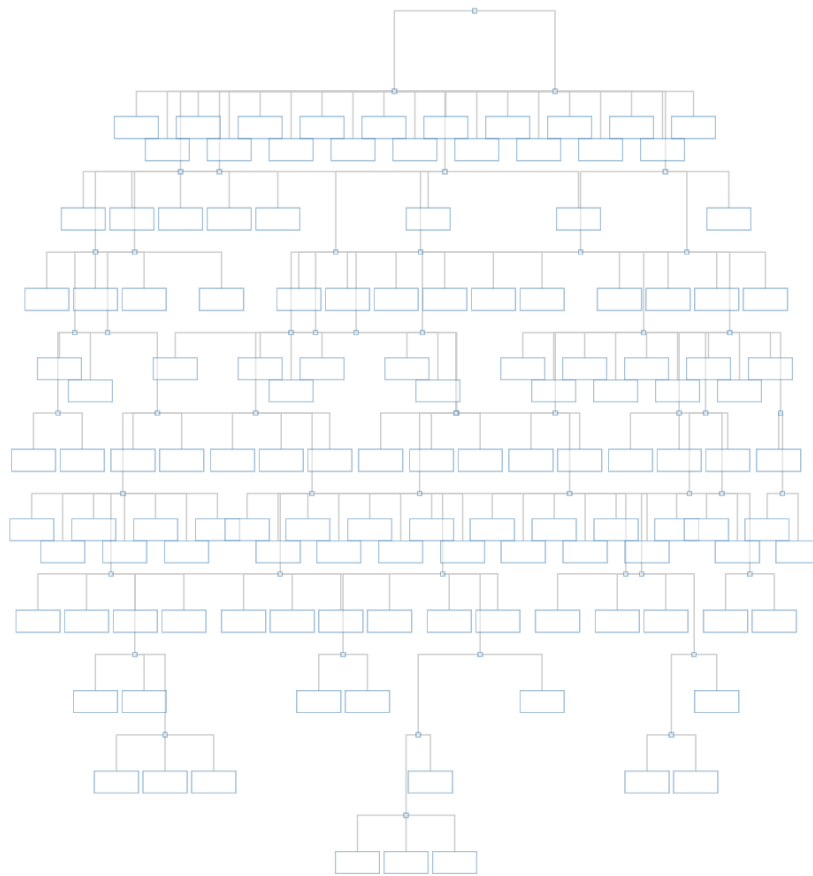


Figure 1: The dengrogram layout. Users cannot identify the parent-children relations.

4 To Do List

1. Go on with DataScanner user study
2. DataScanner paper writing: case and visualization.

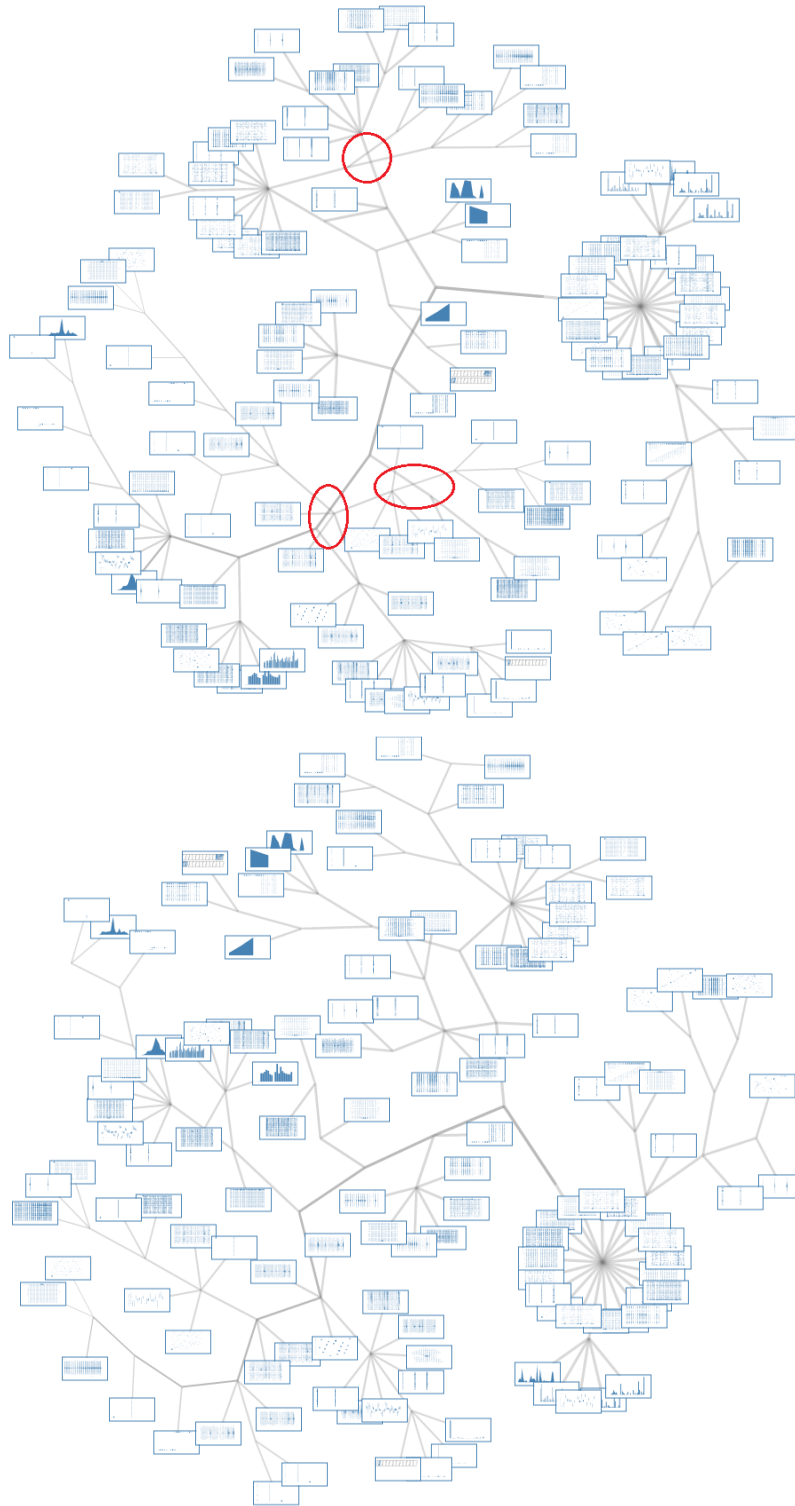


Figure 2: The original force tree (top) and the tree with non-leaf node reordered (bottom). Some overlaps have been highlighted in the tree figure.

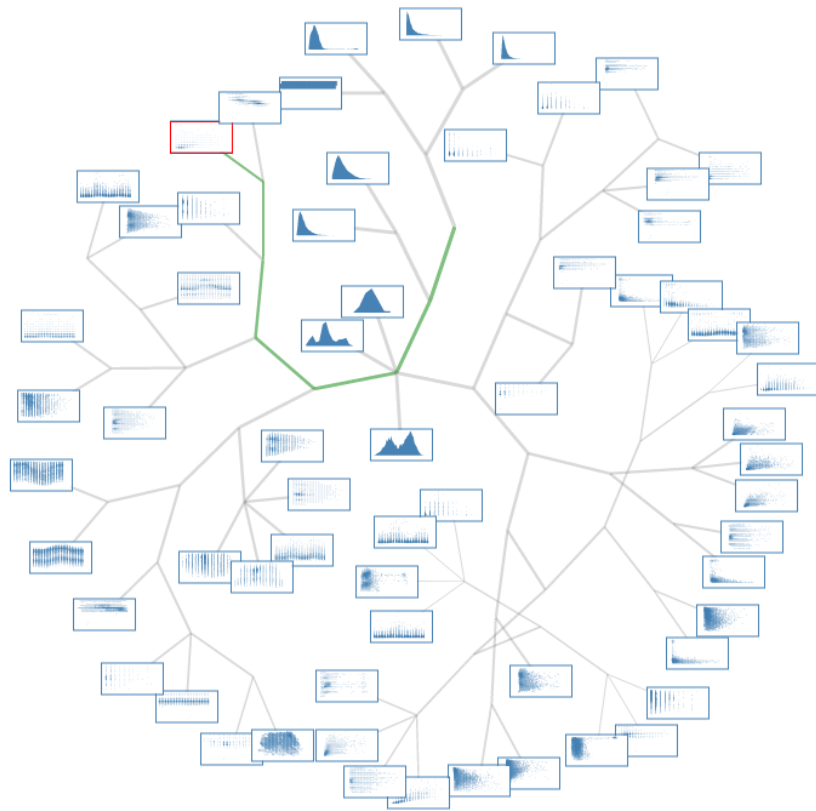


Figure 3: The air quality case.